

SUMMARY OF HYDROLOGIC CONDITIONS IN BIG CYPRESS BASIN

July 2002

SUMMARY

After a soggy June, the summertime rainfall activities were few and far between in July. Surface and groundwater hydrologic conditions were near normal July levels. All of the water control structures were set to wet season operation schedule. However, due to on-going construction for the retrofit of the Golden Gate Canal Weir No. 1, release of water through the Golden Gate Canal system has been moderated, and monitored very closely. No backpumping operations were carried out.

RAINFALL

The summertime convective thunderstorms were less frequent in July. There were no tropical systems. Overall, the weighted average rainfall for the Basin was 7.80 inches, or approximately 12 percent below the long-term average for the month. The year-to-date weighted average for the Basin is 31.73 inches, which is about normal for the year. A summary of rainfall recorded at various stations in the Basin is illustrated in Table 1 and Figure 1.

TABLE 1
RAINFALL REPORT – JULY 2002
DISTRICT/BASIN RAINFALL STATIONS
(ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	CURRENT MONTH 2002	LONG TERM AVERAGE FOR THIS MONTH	CALENDAR YEAR 2002 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	LONG TERM YEARLY AVERAGE
R-1	CONSERVANCY	6.59	8.29	33.17 Inc/Rec	28.68	52.72
R-2	COLLIER COUNTY COURTHOUSE	6.69	8.60	28.37	28.09	52.07
R-3	COLLIER COUNTY LANDFILL	8.49	11.39	34.79	34.85	63.08
R-4	CORKSCREW SWAMP SANCTUARY	7.93	9.44	32.34	33.58	57.86
R-5	FAKAHATCHEE STRAND STATE PRESERVE	11.65	9.78	35.83	35.19	63.03
R-6	GOLDEN GATE FIRE STATION #2	7.02	10.48	28.49	31.61	56.66
R-7	IMMOKALEE LANDFILL	7.37	7.99	29.53	30.21	52.38
R-8	IFAS (INST. OF FOOD/AGRI.SCIE.) N. IMMOKALEE	7.83	7.45	29.93	29.64	50.43
R-9	MARCO ISLAND R.O. PLANT	9.30	8.79	36.10	30.71	55.21
R-10	MILES CITY STATE FORESTRY TOWER	10.33	9.65	39.80	36.47	62.03
R-11	COCOHAATCHEE STRUCTURE #1	8.03	7.00	25.16	25.80	47.41
R-12	SILVER STRAND GROVE	6.26	8.28	30.44	31.70	56.04
R-13	BCB FIELD STATION	7.79	8.86	34.38	29.21	55.09
R-14	COLLIER/SEMINOLE STATE PARK	6.25	8.33	29.29	28.65	53.83
R-15	BONITA SPRINGS WATER PLANT	5.58	8.40	29.83	30.04	54.23

MONTHLY AND YEAR-TO-DATE RAINFALL AT SELECTED LOCATIONS

JULY 2002

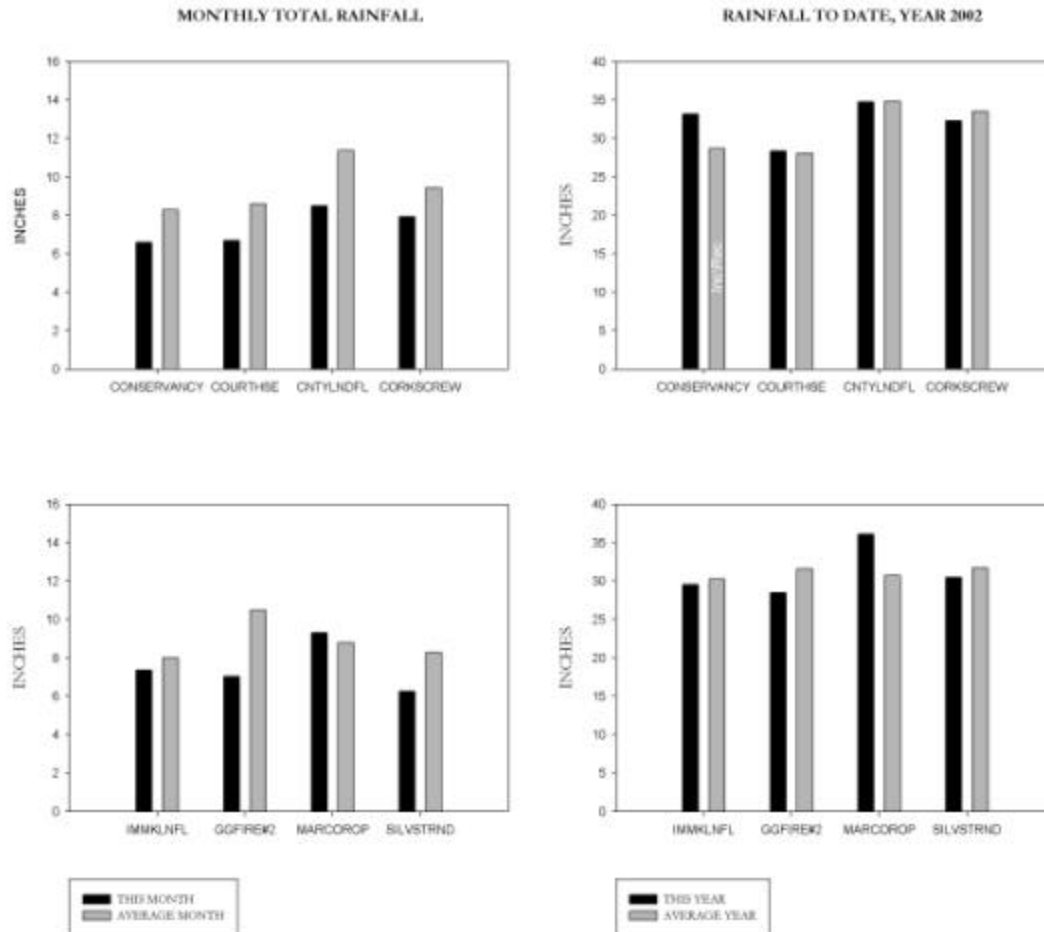


FIGURE 1

SURFACE AND GROUNDWATER LEVELS

Surface water levels in canals and streams responded quickly to abundant rainfall in June and stayed at normal July levels. The water control structures were set to operate on wet season schedule. However, water releases through the Golden Gate Canal system were moderated in order to not interrupt the construction of the retrofit of Golden Gate Canal Weir No. 1. Water levels in the entire system are monitored closely, and the cofferdam will be dismantled if alarming water levels are reached upstream. A summary of surface water stage hydrographs at selected locations is illustrated in Figures 2 and 3.

Records for regional groundwater levels in the surficial water table and Lower Tamiami Aquifers were not available from USGS at the time of the writing of this report.

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2002

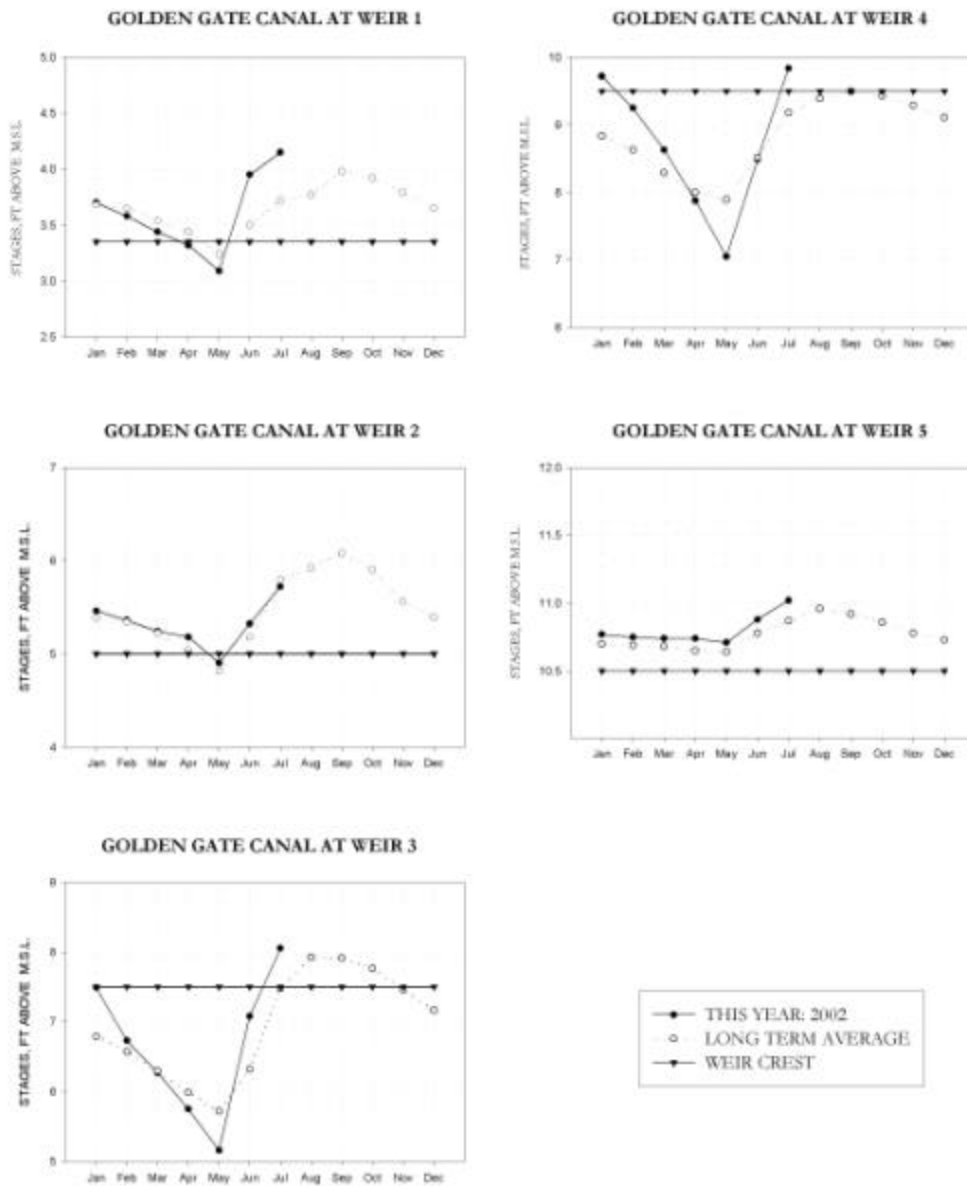


FIGURE 2

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS

2002

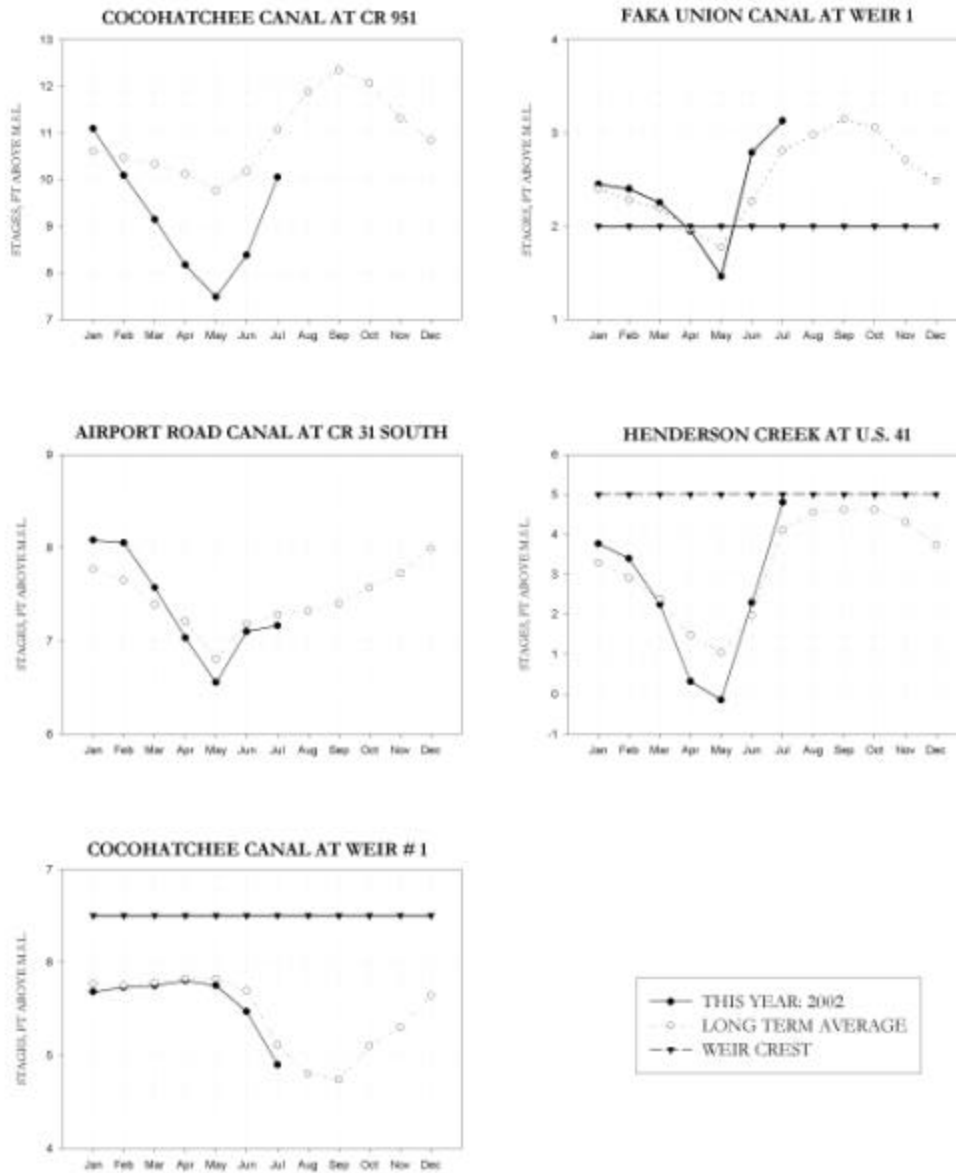


FIGURE 3

WATER USE

The average daily raw water pumpages by the three major public water utilities in the Basin during July 2002 are as follows, and illustrated in Figure 4.

Average Daily Raw Water Pumped

MGD

Utility	July 2002	July 2001
1. City of Naples Water Utility	17.30	14.46
2. Collier County Utilities	22.51	18.84
3. Marco Island Water Utility*	3.65	3.58

* Surface water only

GROUNDWATER LEVELS AT SELECTED LOCATIONS 2002

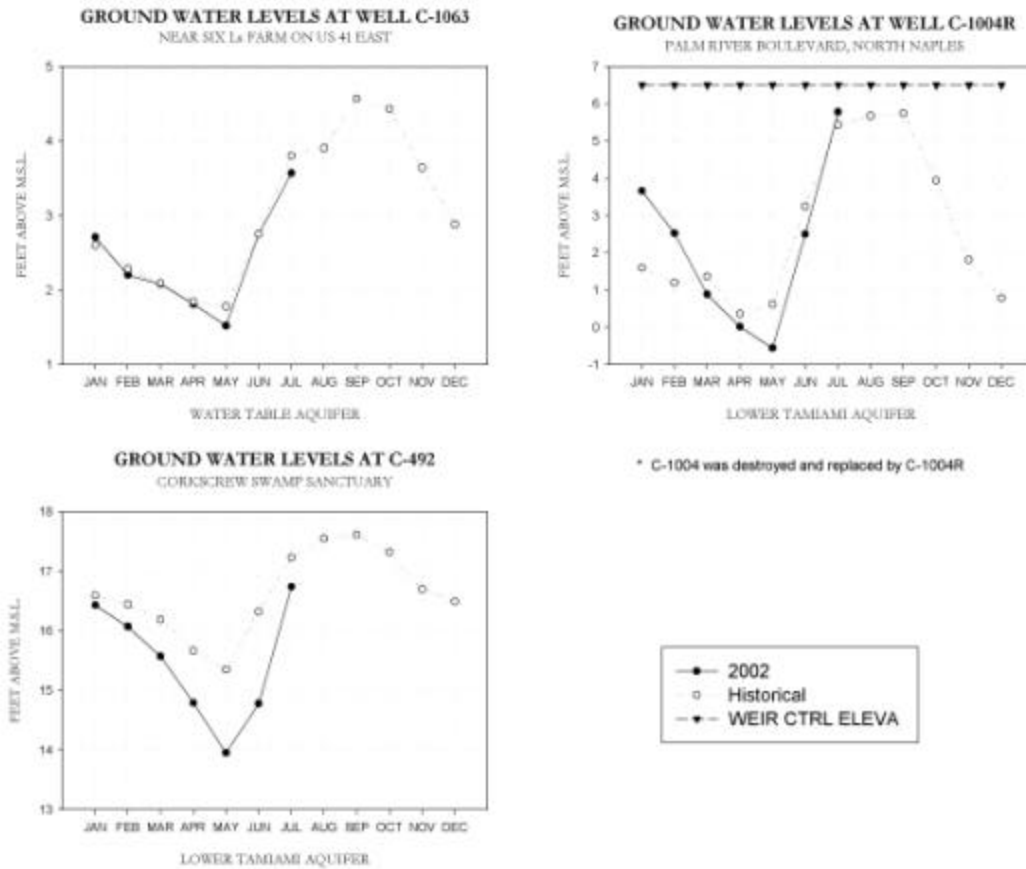


FIGURE 4

WATER USE BY MAJOR PUBLIC UTILITIES
2002

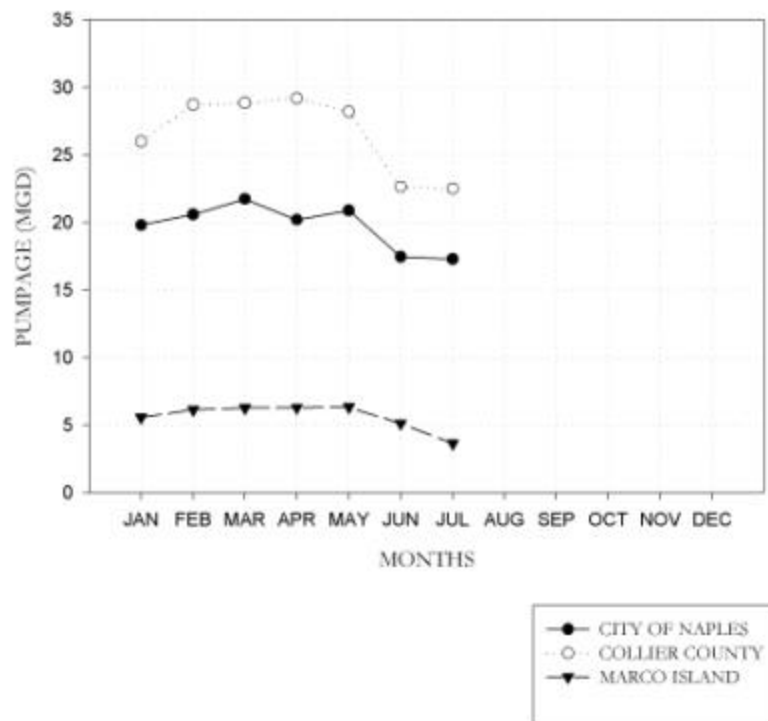


FIGURE 5